Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	08November 022
Team ID	PNT2022TMID49968
Project Name	Digital Naturalist – AI Enabled Tool for Biodiversity Researchers
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Model Building Phase	USN-1	Collecting and digitalizing data for analysis	3	Medium	Benentia Alice Sanjana.N
Sprint-1	Model Building Phase	USN-2	Data Augmentation and Feature Engineering	4	High	Azhagu Anu.K
Sprint-1	Model Building Phase	USN-3	Building the model using transfer learning approach	4	High	Fathima Amrina.M
Sprint-1	Model Building Phase	USN-4	Evaluating the model to check the accuracy and precision	4	High	Ishwarya Devi.T
Sprint-1	Model Building Phase	USN-5	Class Prediction	3	Medium	Azhagu Anu.K
Sprint-2	Development Phase	USN-6	User database creation – contains the details of user	4	High	Benentia Alice Sanjana.N
Sprint-2	Development Phase	USN-7	Web page Creation	4	High	Ishwarya Devi.T
Sprint-2	Development Phase	USN-8	Login and register page creation - Login through email and password along with otp verification	3	Medium	Fathima Amrina.M
Sprint-3	Development Phase	USN-9	Area to obtain user input	3	Medium	Ishwarya Devi.T
Sprint-3	Development Phase	USN-10	Model loading - API creation using flask.	4	High	Azhagu Anu.K

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Development Phase	USN-11	Prediction page creation – shows prediction for user input along with description about the species	2	Low	Fathima Amrina.M
Sprint-4	Deployment Phase	USN-12	Connecting the frontend and backend using API calls	4	High	Benentia Alice Sanjana.N
Sprint-4	Deployment Phase	USN-13	Cloud deployment – Deployment of application using IBM cloud	4	High	Fathima Amrina.M
Sprint-4	Testing Phase	USN-14	Functional testing – Checking scalability and robustness of the application	3	Medium	Azhagu Anu.K
Sprint-4	Testing Phase	USN-15	Non-functional testing – Checking for user acceptance and integration	3	Medium	Ishwarya Devi.T

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	18	6 Days	24 Oct 2022	29 Oct 2022	20	30 Oct 2022
Sprint-2	11	6 Days	31 Oct 2022	05 Nov 2022	20	04 Nov 2022
Sprint-3	9	6 Days	07 Nov 2022	12 Nov 2022	20	11 Nov 2022
Sprint-4	14	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$Average\ velocity = 9/4 = 2.25$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.